

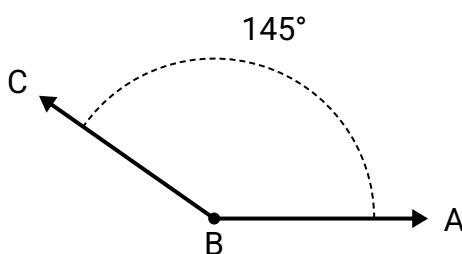


## Adding a Ray and Calculating Angle

Name: \_\_\_\_\_

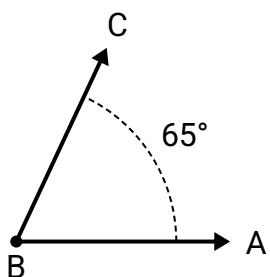
Solve each problem.

1)



A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 103 degrees.  
B. What is the measure of angle DBC?

2)

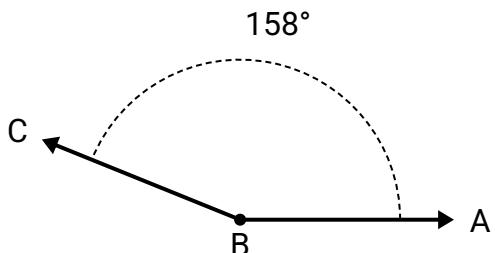


A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.  
B. What is the measure of angle ABD?

## Answers

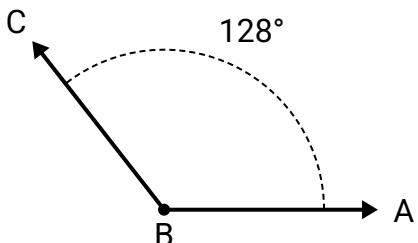
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

3)



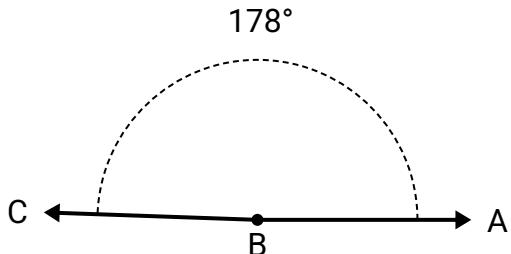
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.  
B. What is the measure of angle ABD?

4)



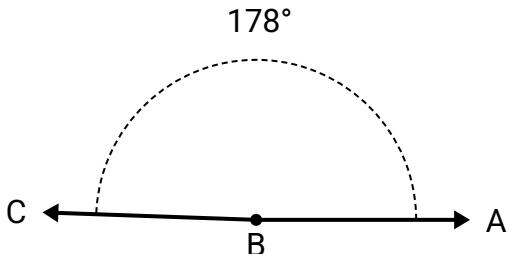
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 68 degrees.  
B. What is the measure of angle DBC?

5)



A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 85 degrees.  
B. What is the measure of angle ABD?

6)



A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 67 degrees.  
B. What is the measure of angle DBC?

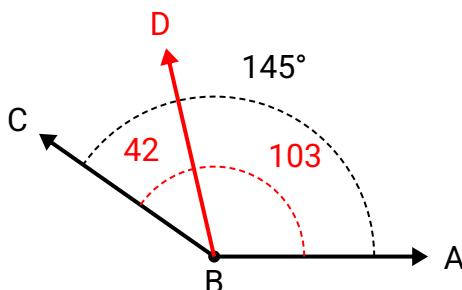


## Adding a Ray and Calculating Angle

Name: **Answer Key**

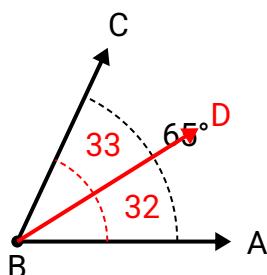
Solve each problem.

1)



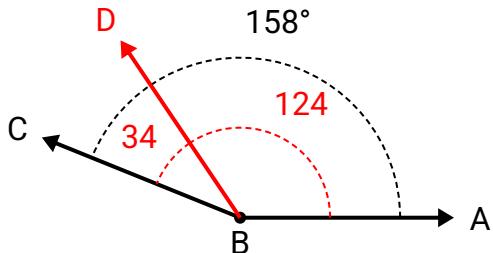
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 103 degrees.  
 B. What is the measure of angle DBC?

2)



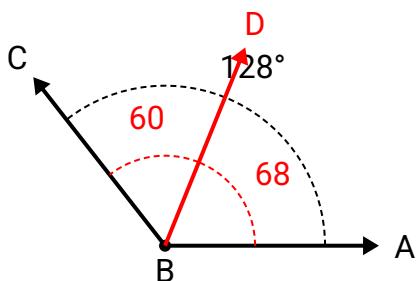
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.  
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3)



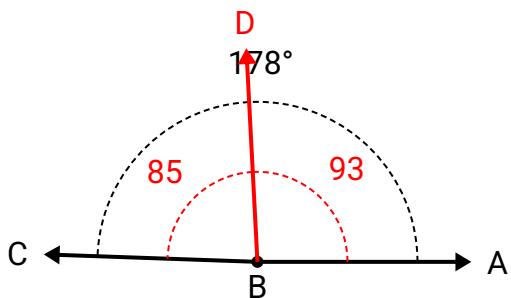
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.  
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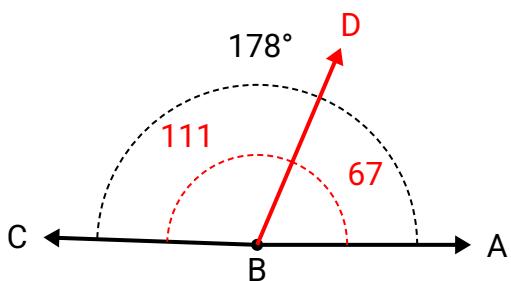
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 68 degrees.  
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A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 85 degrees.  
 B. What is the measure of angle ABD?

6)



A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 67 degrees.  
 B. What is the measure of angle DBC?

**Answers**

1. **42°**

2. **32°**

3. **124°**

4. **60°**

5. **93°**

6. **111°**